

(19)



JAPANESE PATENT OFFICE

**PATENT ABSTRACTS OF JAPAN**

(11) Publication number: **62104579 A**

(43) Date of publication of application: **15.05.1987**

(51) Int. Cl. **C12N 9/88**  
///(C12N 9/88, C12R 1:46)

(21) Application number: **60243633**  
(22) Date of filing: **30.10.1985**

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**(54) PRODUCTION OF HYALURONIDASE**

**(57) Abstract:**

**PURPOSE:** A specific microorganism in Streptococcus is cultured in a medium to inexpensively produce, in an industrial scale, hyaluronidase which is used in cosmetics, medicines, reagents for research, and so on.

**CONSTITUTION:** A microorganism in group C of Streptococcus, such as Streptococcus dysgalactiae is

cultured in a medium containing carbon and nitrogen sources, 1W4wt% of Tod-Hewitt broth, 0.01W0.1wt% of hyaluronic acid and so on, at 6W7pH and 25W35°C for 1W2 days under weak aeration to accumulate hyaluronidase in the medium. The culture mixture is filtered and subjected to separation treatment to collect purified hyaluronidase which has a molecular weight of about 80,000, specifically acts on hyaluronic acid, but not other polysaccharides and heparin, optimally acts at a pH of 6W7, temperature of 35W45°C and shows temperature stability up to 40°C at 6pH for 15min.

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